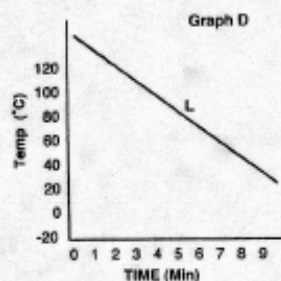
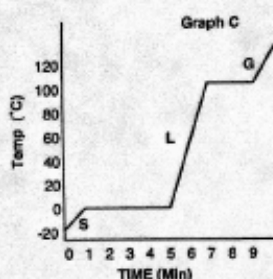
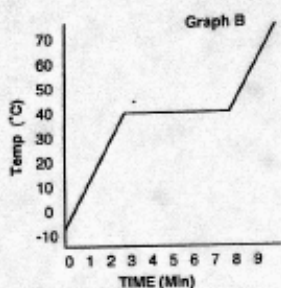
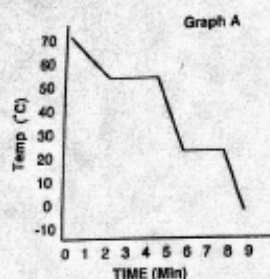


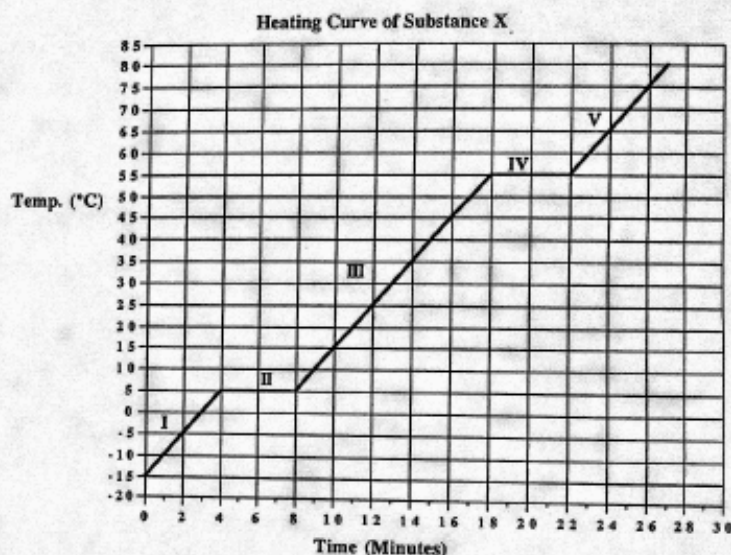
HEATING AND COOLING CURVE REVIEW



- 1) In graph A, what phases are present at 50 °C?
- 2) How many phase changes take place in graph B? _____
In graph C? _____ What phase changes take place in graph D?
- 3) In graph B, during what time interval is the substance entirely a solid? _____
A liquid? _____
- 4) What graph could represent pure water?
- 5) Are any of the substances the same? _____ How do you know?
- 6) At what time in graph B has the substance just finished melting? _____

CHEMISTRY

HEATING CURVE WORKSHEET



The heating curve shown above is a plot of temperature vs time. It represents the heating of substance X at a constant rate of heat transfer. Answer the following questions using this heating curve:

1. In what part of the curve would substance X have a definite shape and definite volume?
2. In what part of the curve would substance X have a definite volume but no definite shape?
3. In what part of the curve would substance X have no definite shape or volume?
4. What part of the curve represents a mixed solid/liquid phase of substance X?
5. What part of the curve represents a mixed liquid/vapor phase of substance X?
6. What is the melting temperature of substance X?
7. What is the boiling temperature of substance X?